


**Ascertaining frequency components in vehicle collision - providing electrical time domain oscillating signal indicating collision for operating passenger retaining system**

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**Abstract of DE4034974**

The vehicle of a certain class is brought into collision under at least one condition in which it would not be necessary to operate the passenger retention system, e.g. inflation of protective air bag. The electrical oscillation signal for this stage is recorded. The vehicle is brought into collision under at least one condition in which it would be desirable to operate the retention system. The oscillation signal for this stage is also recorded.

A frequency domain transformation function is carried out on the time domain recorded signals in order to identify the frequency components for the recorded electrical signals. The frequency components of the two stages are compared. The frequency components present and absent in the two stages are identified.

USE - Identifying frequency components in signal from deceleration sensor in order to determine if safety should be operated.

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